PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 04.069/1a	FOR FURTHER ACTION	See item 4 below
International application No. PCT/EP2004/007231	International filing date (day/month/year) 02 July 2004 (02.07.2004)	Priority date (day/month/year) 04 July 2003 (04.07.2003)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant REHAU AG + CO		

1.	This international preliminary re International Searching Authorit	port on patentability (Chapter I) is issued by the International Bureau on behalf of the yunder Rule 44 bis.1(a).
2.	This REPORT consists of a total	of 7 sheets, including this cover sheet.
		nce to the written opinion of the International Searching Authority should be read as a reference eport on patentability (Chapter I) instead.
3.	This report contains indications i	relating to the following items:
	Box No. I	Basis of the report
	Box No. II	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VIII	Certain observations on the international application
4.		mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but takes an express request under Article 23(2), before the expiration of 30 months from the priority

	Date of issuance of this report 29 May 2006 (29.05.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Ellen Moyse
Facsimile No. +41 22 740 14 35	Telephone No. +41 22 338 89 75

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUT	HORITY		1an
Го:			PCT PCT
			RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	
Applicant's or agent's file reference		FOR FURTHER	ACTION
04.069/1a		See paragraph 2 below	
International application No. PCT/EP2004/007231	International filing date 02.07.2004	(day/month/year)	Priority date (day/month/year) 04.07.2003
International Patent Classification (IPC) o	r both national classification an	nd IPC	
Applicant REHAU AG + CO			
This opinion contains indication	s relating to the following item:	s:	
Box No. I Basis o	of the opinion		
Box No. II Priority	,		
Box No. III Non-es	tablishment of opinion with re	gard to novelty, invent	ive step and industrial applicability
Box No. IV Lack o	funity of invention		
	ed statement under Rule 43bis bility; citations and explanatio		novelty, inventive step or industrial ement
Box No. VI Certain	documents cited		
Box No. VII Certain	defects in the international ap	plication	
Box No. VIII Certain	observations on the internatio	nal application	
2. FURTHER ACTION			
If a demand for international International Preliminary Exami	ning Authority ("IPEA") except the chosen IPEA has notified	ot that this does not app the International Bur	Il be considered to be a written opinion of the oly where the applicant chooses an Authority other eau under Rule 66.1bis(b) that written opinions or
If this opinion is, as provided at written reply together, where a PCT/ISA/220 or before the expir	ppropriate, with amendments,	before the expiration	a, the applicant is invited to submit to the IPEA: of 3 months from the date of mailing of Forn expires later.
For further options, see Form PC	T/ISA/220.		
 For further details, see notes to F 	form PCT/ISA/220.		
N 1 1		TA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Name and mailing address of the ISA/EP		Authorized officer	
Facsimile No.		Telephone No.	

International application No.
PCT/EP2004/007231

Во	No. I	Basis of this opinion
1.	With filed,	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed titon, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filled or does not go beyond the application as filled, as appropriate, were turnished.
4.	Addi	tional comments:
LL!		

International application No. PCT/EP2004/007231

Box N	I Priority
1.	The following document has not yet been furnished:
	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
	translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date in the claimed priority date.
2.	This opinion has been established as if no priority had been claimed due to the fast that the priority claim has been found invalid (Rules 456:1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3. A	itional observations, if necessary:

International application No. PCT/EP2004/007231

2. Citations and explanations:

Reference is made to the following documents:

- D1: EP-A-0 795 712 (PT POLY TEC GMBH) 17 September 1997 (1997-09-17)
- D2: DE 9 308 441 U (PT POLY TEC GMBH) 16.09.1993

The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claim 1 is not novel within the meaning of PCT Article 33(2).

Document D1 discloses (the references between parentheses refer to this document):

- a connection device for an auxiliary pipe in combination with a transverse opening (2) as is found with the bored-through wall of a main pipe (1), of a shaft or the like, and the diameter of which can vary considerably, with the following features:
- a) a hollow-plug-shaped, in part relatively soft elastomer insert (10) comprises a flexible support collar (12) and a sealing wall region (11) with a tapering inner face (14) and with an outer face (13) which is generally adapted to the transverse opening (2);
- b) a relatively harder connection neck (20) comprises an engagement end (21) with a tapering outer face (26) for

International application No.
PCT/EP2004/007231

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

interaction with the inner face of the elastomer insert and a sleeve end (22) for interaction with the auxiliary pipe;

- c) the taper of the inner face (14) of the elastomer insert and the taper of the outer face of the connection neck run in the insertion direction of the parts (10, 20) in which these are pushed into the transverse opening or into one another;
- d) the sealing wall region with the tapering inner face is provided with locking ring zones (46) which are inclined in the insertion direction and towards the inside of the cavity of the elastomer insert, and
- e) the tapering outer face of the engagement end is likewise provided with locking ring zones which, seen from the engagement end, are inclined outwards counter to the insertion direction;
- f) during fitting of the elastomer insert in the transverse opening and subsequent assembly of the connection neck, the locking ring zones engage in one another in a ratchet-like manner and engage in annular grooves (46) and, by further displacement of the connection neck in the insertion direction, the elastomer insert is stretched stepweise and pressed more firmly against the transverse opening.

Dependent claims 3-28 do not contain any features which, in combination with the features of any claim to which they refer, meet the PCT requirements for novelty and inventive step.

The feature combination contained in dependent claim 2 is neither known from nor suggested by the available prior

International application No. PCT/EP2004/007231

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

art, for the following reasons:

novelty:

the locking ring zones disclosed in document D1 show no toothing with a sawtooth-shaped cross section.

inventive step:

although toothings with a sawtooth-shaped cross section are generally known from the prior art (see D2), it is not obvious for a person skilled in the art to apply this kind of toothing in a connection device as described in claim 1.